## PHILIP MORRIS U. S. A. INTER-OFFICE CORRESPONDENCE

RICHMOND. VIRGINIA

To: Ms. R. W. Kanipe

Date:

June 23, 1986

From:

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J. M. Nelson

Subject: .

GAS PHASE DELIVERIES OF PHILIP MORRIS AND COMPETITIVE BRANDS

The gas phase deliveries of most Philip Morris and domestic cigarette brands manufactured from November, 1985 through March, 1986 are reported in the attached tables. Major competitive cigarette brands were analyzed for carbon monoxide (CO), nitric oxide (NO), hydrogen cyanide (HCN), and total aldehydes (RCHO). The averages are reported on a milligram per cigarette basis.

The brands are listed by company in Table I and ranked according to CO from low to high. Those brands which contain carbon in their filters are footnoted with the number one and are listed in Table II. Those brands which do not have filter ventilation are noted with the number two. Brand modifications in the gas phase deliveries are noted parenthetically in the tables.

It has been determined that the standard FTC methodology does not accurately measure the gas phase deliveries of cigarettes incorporating a "Barclay-type" filter. Therefore, the Barclay and Kool Ultra cigarettes are listed using both the standard and modified holders in Table III.

Attachments

J.m. nelson